



# CONSTRUCTION EQUIPMENT

## 63309 VOLVO SD115B 236555 - HYDRAULIC SYSTEM



**Sample No:** VCP305550  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 63309



### SAMPLE INFORMATION

Sample Number	<b>VCP305550</b>	VCP284933	VCP269939	---
Sample Date	<b>18 Jan 2021</b>	06 Aug 2020	09 Mar 2020	---
Machine Hours	<b>3328</b>	3841	2324	---
Oil Hours	<b>3328</b>	1600	2324	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: ROBERT TURNER  
 rturner@ripatampa.com



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.8</b>	43.4	43.0	---
Acid Number (AN)	mg KOH/g	<b>0.302</b>	0.414	0.193	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>3062</b>	2149	8656	---
Particles >6µm		<b>170</b>	621	1814	---
Particles >14µm		<b>29</b>	25	50	---
ISO 4406:1999 (c)		<b>19/15/12</b>	18/16/12	20/18/13	---
Silicon	ppm	<b>2</b>	3	4	---
Sodium	ppm	<b>&lt;1</b>	<1	2	---
Potassium	ppm	<b>&lt;1</b>	<1	2	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>38</b>	30	38	---
Copper	ppm	<b>7</b>	5	<1	---
Lead	ppm	<b>4</b>	4	10	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>0</b>	7	2	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>1</b>	1	<1	---
Nickel	ppm	<b>&lt;1</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>112</b>	106	119	---
Magnesium	ppm	<b>14</b>	14	0	---
Zinc	ppm	<b>342</b>	349	89	---
Phosphorus	ppm	<b>380</b>	368	443	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>2</b>	5	<1	---

**Depot:** RIPTAM  
**Unique No:** 9346883  
**Signed:** Angela Borella  
**Report Date:** 02 Feb 2021

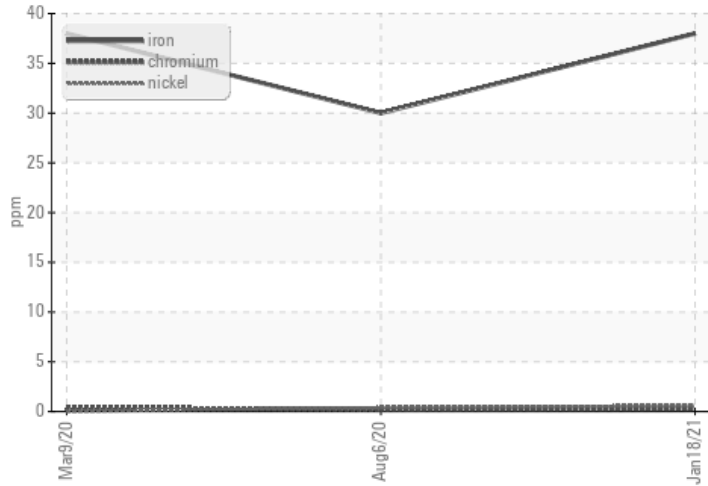


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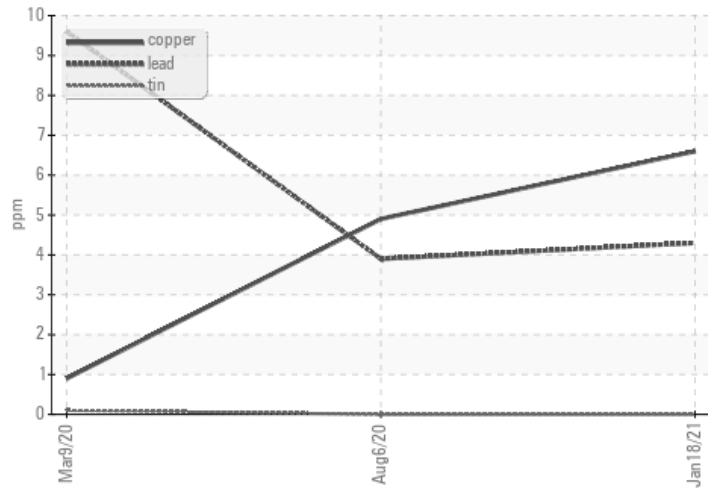


## VOLVO GRAPHS

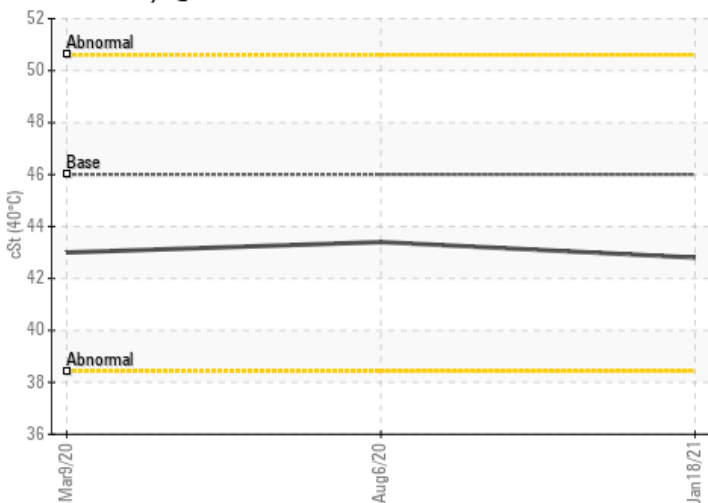
Ferrous Alloys



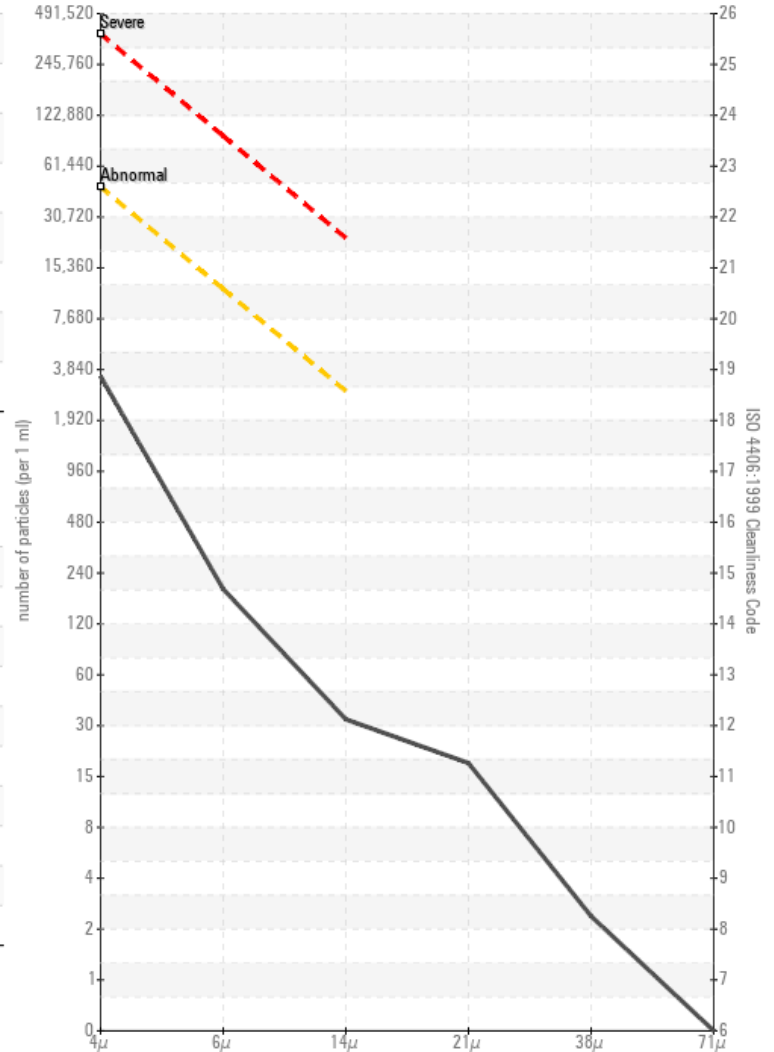
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

